

In re Patent Application of:  
**CHAO-YANG HSU ET AL.**  
Serial No. 10/820,496  
Filing Date: 04/08/2004

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**In The Abstract**

A replacement abstract, fully supported by the original abstract and specification as originally filed, is herein being submitted on the following separate page. No new matter is added by this amendment.

## ABSTRACT OF THE DISCLOSURE

A charging circuit in a back-up power system is provided. The charging circuit includes an output terminal electrically connected to a main power for providing an AC output voltage, a transformer having a secondary electrically connected to the output terminal, an energy storage and supply device providing a DC voltage, an inverter having an output electrically connected to a primary of the transformer and an input electrically connected to the energy storage and supply device and including four gate control switch devices to form a bridge switching device, a bridge rectifier having an input electrically connected to the output of the inverter in parallel, and a charging switch device electrically connected to an output of the bridge rectifier in parallel so as to charge the electrical energy storage and supply device through one of a conduction state and a cut-off state of said charging switch device.